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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,596	0/603,596 06/26/2003		Jae-Hyuk Lee	P-0529	P-0529 2993	
34610	7590	09/20/2006		EXAMINER		
FLESHNE		, LLP	KIM, KEVIN			
P.O. BOX 22 Chantill		20153	ART UNIT	PAPER NUMBER		
	•			2611		

DATE MAILED: 09/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
		10/603,596	LEE, JAE-HYUK					
	Office Action Summary	Examiner	Art Unit					
		Kevin Y. Kim	2611					
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
	• •	/ 10 057 70 5VDIDE 0 1 0 NT I	0) OD TUUDTY (00) DAYO					
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35·U.S.C. § 133).					
Status			•					
1)⊠	Responsive to communication(s) filed on 26 Ju	ıne 2006.						
		action is non-final.						
′—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>15-18</u> is/are allowed.							
6)⊠	6) Claim(s) 1-3,5-9,19-26 and 29-36 is/are rejected.							
7)🖾	Claim(s) 4,10-14,27,28,37 and 38 is/are object	ted to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.						
Applicati	on Papers							
9)[The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>26 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)☐ Some * c)☐ None of:								
	 Certified copies of the priority documents have been received. 							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
•••								
Attachment	• •	. 4) Interview Summary	(DTO 442)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) 🔯 Infor	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application					

Application/Control Number: 10/603,596

Art Unit: 2611

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3,5-9,26,36 are rejected under 35 U.S.C. 102(e) as being anticipated by Wheatley, III et al (US 6,741,661).

Claims 1,5,9, 26,36.

Wheatley, III et al An output level adjusting method of a multi-carrier transmitter (see col.3:33-37), comprising:

calculating a PAR (peak to average ratio) of a multi-carrier signal (see col. 10:55-

comparing the calculated PAR with a target PAR (col.11:4-7); and controlling a level of the multi-carrier signal based on a result of the comparison (col.11:.23-27).

Claims 2,6,7,8.

56);

Application/Control Number: 10/603,596 Page 3

Art Unit: 2611

See col.11:8-18 describing the scaling of the power reduction function which amounts to attenuating the multi-carrier when the calculated PAR is less than the target and increasing a gain of the multi-carrier signal when the calculated PAR is greater than the target PAR.

Claim 3.

See col.11:8-18 describing the scaling of the power reduction function which teaches that the signal is attenuated in accordance with the calculated PAR.

3. Claims 19-21,29-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Kumagai et al (US 5,257,415).

Kumagai et al discloses a method and a controller for controlling a multi-carrier transmitter (see Fig.2), comprising:

calculating a power value of a multi-carrier signal of the transmitter (see col.3:66-68); and

controlling a level of the multi-carrier signal based on the calculated power value (see col.4:15-33).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 22-25,32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumagai et al (US 5,257,415), as applied to claims 19 and 29 above, in view of Ge (US 6,681,100).

Kumagai et al discloses all the subject matter claimed except for comparing the calculated power value to a reference power value and increasing a gain of the multi-carrier signal based on a result or attenuating the signal.

Ge teaches that the transmit gain is adjusted based on the comparison of the power level with a threshold to maintain the power level at the desired threshold level.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to compare the calculated power value to a reference power value and control the gain and/or attenuation of the multi-carrier signal based on the result in Kumagai et al's transmitter as taught by Ge.

Allowable Subject Matter

- 6. Claims 4, 10-14,27-28,37,38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 15-18 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

Application/Control Number: 10/603,596 Page 5

Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 15, 2006

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KEVIN KIM
PRIMARY PATENT EXAMINER

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